X International School – 2026

Class: 011225 Tropical Biobased Production Systems | 2026 July 13th - 24th

Coordinators: Profs. Aline Cesar, Ana Claudia dos Santos Luciano, Brunno da Silva Cerozi and Pietro Sica
Support - International Office: Carmen Pilotto, Elaine Oliveira, Luciana Joia and Rodrigo Gullo
Esalq/USP Campus (Av. Pádua Dias, n. 11, Piracicaba/SP) **[Ceres Room - Central Building (C.B.)]**

1st week

Monday – July 13	**Activity**
8:30 am - 9:00 am **9:00 am - 11:00 pm** Local: Ceres Room/Central Building	Registration - Welcome Coffee (Dean and Coordination) **Opening Class: Overview of Brazilian Agriculture** Prof. Rafael Munhoz Pedroso (Crop Science Dep.) + **Official Photo**
11:30 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm Local: Ceres Room/Central Building	**Orientation to Evaluation/Final Project (coordinators)** *3:00 pm Visit to the Carbon Research in Tropical Agriculture (CCARBON)/USP and Adealq Store*
Tuesday – July 14	**Activity**
8:30 am - 12:00 pm Local: Ceres Room - Central Building	**Biosystems Engineering** **- The future of digital agriculture: automation, AI, and robotics** Prof. Roberto Fray da Silva (Biosystems Engineering Dep.) **- Driving Sustainability through Biogas: concepts and practices from Brazil** Prof. Maria Paula Cardeal Volpi (Biosystems Engineering Dep.) **- Machine learning for monitoring the impact of compound climate extremes on agroecosystems** Prof. Marcos Roberto Benso (Biosystems Engineering Dep.) *9:45 am - Visit to the laboratories of the Department of Biosystems Engineering* *It is mandatory to wear pants, closed T-shirt and closed shoes.*
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 2:30 pm Local: Ceres Room/Central Building	**Animal Science** **- Milk Production in the Tropics** Prof. Carla Maris Bittar (Animal Science Dep.)
2:30 pm - 5:00 pm	**Final Project Preparation (1) (students)**
Wednesday - July 15	**Activity**
8:30 am – 12:00 pm Local: bus departure In front of the Central Building	**Entomology and Acarology** **- Challenges for integrated Pest Management in the Tropics** Prof. João Roberto Spotti Lopes (Entomology and Acarology Dep.) *9:30 am - Rotating Visits to Research Laboratories - Dep. Entomology and Acarology*
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm	**Final Project Preparation (2) (students)**
Thursday - July 16	**Activity**
7:10 am – 6:00 pm Local: bus departure In front of the Central Building	**Forest Sciences** **- Tropical Planted Forest Management ->** Prof. Rodrigo Eiji Hakamada (Forest Sciences Dep.) *Visit to a forest restoration area (native species and fruit trees and another mixed plantation with native and exotic species) – Itatinga Forestry Research Station (Itatinga, SP)* *It is mandatory to wear pants, closed T-shirt and closed shoes.*
Friday - July 17	**Activity**
7:30 am **- 12:00 pm** Local: bus departure In front of the Central Building	**Genetics** **- Past, Present, and Future of Arabica Coffee Genetics: from domestication to the challenge of climate change ->** Prof. Douglas Silva Domingues (Genetics Dep.) *Visit to IAC Coffee Center, Campinas – SP* *It is mandatory to wear pants, closed T-shirt and closed shoes.*
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 3:30 pm Local: Ceres Room/Central Building	**Economics, Administration and Sociology** **- Economics and Natural Resource use in Brazilian Agriculture** Giovani William Gianetti (Institute for Territorial Governance and Public Policy - iGPP) **- Carbon Credit Markets in Brazil** Prof. Maria Paula Vieira Cicogna (Economics, Administration and Sociology Dep.)
4:00 pm - 5:00 pm Local: Ceres Room/Central Building	**Biological Sciences** **Brazilian agrobiodiversity: potential plants for tropical agriculture** Prof. Flávio Bertin Gandara Mendes (Biological Sciences Dep.)
Saturday (18) and Sunday (19)	Free

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2nd week

Monday - July 20	**Activity**
8:30 am - 12:00 pm Local: Ceres Room Central Building	**Crop Science** **- Irrigated Agriculture for supporting the World Food Security** Prof. Durval Dourado Neto (Crop Science Dep.) - **Soybean Production in Brazil: current situation and prospects in a climate change scenario** Prof. Renan Caldas Umburanas (Crop Science Dep.) **- Cotton production in Brazil: production systems, crop management, and emerging challenges** Prof. Juan Piero Antonio Raphael (Crop Science Dep.)
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:30 pm Local: bus departure In front of the Central Building	*Visit to the Granelli Usina, Charqueada - SP* *It is mandatory to wear pants, closed T-shirt and closed shoes.*
Tuesday - July 21	**Activity**
8:30 am - 12:00 pm Local: Dep. Soil Science (next to the Central Building)	**Soil Science** **- Plant nutrition for heavy metal stress mitigation ->** Prof. Flavio H. S. Rabêlo (Soil Science Dep.) **- Geotechnologies applied to Soil Studies ->** Prof. Raúl R. Poppiel (Soil Science Dep.) *10:30 am - Visit to the Remote Sensing and Geoprocessing Lab. Applied to Soils and Land Use Planning, Soil Science Department*
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 2:30 pm Local: Ceres Room - Central Building	**Plant Pathology and Nematology** **- Plant disease management in Tropical and Subtropical Areas** Prof. José Belasque Junior (Plant Pathology and Nematology Dep.)
2:30 pm - 5:00 pm	**Final Project Preparation (3) (students)**
Wednesday- July 22	**Activity**
8:30 am - 10:30 pm Local: Ceres Room Central Building	**Biological Sciences** **- Theobroma Cacao: how tropical pathogens threaten the world chocolate supply** Prof. Paulo Teixeira (Biological Sciences Dep.) **Forest Sciences** **- Eucalyptus Pulp Production in Brazil** Prof. Humberto de Jesus Eufrade Junior (Forest Sciences Dep.)
10:30 pm - 12:00 pm	**Final Project Preparation (4) (students)**
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm Local: Ceres Room, C.B.	**Final Project Preparation (5) (students)**
Thursday- July 23	**Activity**
8:30 am - 12:pm Local: Dep. Food Science and Technology – Building 2 (in front of the restaurant)	**Food Science and Technology** **- Sustainable Food and Bioenergy from Sugarcane ->** Prof. Pietro Mendonça de Santis Sica (Food Science and Technology Dep.) **- Cachaça: Quality Assurance and Control ->** Prof. André Alcarde (Food Science and Technology Dep.) *10:30 am - Visit to the Pilot Plant/Distillery and Laboratories*
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:30 pm Local: bus departure In front of the Central Building	*Visit to CTC (Sugarcane Technology Center)* *It is mandatory to wear pants, closed T-shirt and closed shoes.*
Friday - July 24	**Activity**
8:30 am - 12:pm Local: Ceres Room, C.B.	**Students Presentations**
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm Local: Ceres Room, C.B.	**Students Presentations**

***Final Project proposal: During the course, students will be encouraged to work on creating an innovative project whose theme will be Food and Nutritional Security in Tropical Production Systems. At the end of the course, students will present their projects to the Esalq community and guests, and the best projects can be presented at global meetings in which A5 takes part.**

v. July 8, 2026